INDEX

THE SOVIET JOURNAL OF ECOLOGY

Volume 3, Numbers 1-6, 1972

THE SOVIET JOURNAL OF ECOLOGY
Volume 3, Numbers 1-6, 1972
(A translation of Ékologiya)

A

Akhmedov, R. M. – 551
Alakhverdiev, F. D. – 255
Aleksakhin, R. M. – 191, 578
Aleksakhina, T. I. – 32
Aliev, S. V. – 551
Alpatov, V. V. – 184, 292
Altynbeva, P. V. – 152
Amosova, I. S. – 103
Andreyashkina, N. I. – 195
Antonova, L. A. – 346
Archegova, I. B. – 437
Ataev, É. A. – 526
Aumées, L. É. – 246

B

Bab'eva, I. P. – 59
Baimuratov, A. B. – 540
Bannikov, A. G. – 336
Belopol'skii, L. O. – 138, 246
Belousova, N. A. – 362
Beregovaya, E. I. – 328
Bobro, V. I. – 181
Bochvar, I. A. – 417, 545
Bogdanov, O. P. – 176
Boikov, V. N. – 126, 276
Boikova, F. I. – 126
Bol'shakov, V. N. – 276
Bondartseva, M. A. – 428
Bozhko, A. M. – 47
Brodskii, V. Ya. – 10
Brushko, E. K. – 564
Brusynina, I. N. – 209
Butov, K. N. – 143

C

Chalidze, F. N. – 522
Chebotina, M. Ya. – 469, 554
Chistyakov, M. P. – 234
Chugunov, Yu. D. – 10

D

Danilov, P. I. – 477
Davletshina, A. G. – 569
Dorbinskii, L. N. – 88
Dol'nik, T. V. – 324
Drobyshev, V. P. – 83
Dyatlov, A. I. – 534

E

Emel'yanov, P. E. – 389
Erdakov, L. N. – 49
Ermakov, E. N. – 379
Ermakova, M. V. – 239

F

Filchenko, V. V. – 262
Frolova, L. T. – 63

G

Garanin, V. I. – 360
German, A. L. – 270
Gilyarov, M. S. – 92, 382
Gol'tsman, M. E. – 281
Golubev, V. I. – 59
Gorchakvskii, P. L. – 88, 489
Goryainova, G. P. – 246
Goryshina, T. K. – 465
Gozin, A. A. – 74
Grakov, N. N. – 395
Grubant, V. N. – 457
Gubatova, D. Ya. – 417
Gulii, V. V. – 315

I

Ilyushina, M. T. – 440
Isakov, I. P. – 369
Ivanova, N. L. – 380

K

Kafarov, M. K. – 389
Kalabukhov, N. I. – 500
Karavaeva, E. N. – 257
Kartel', M. V. – 133
Keirim-Markus, I. B. – 417, 545
Khalturin, D. K. – 108
Khashes, Ts. M. – 181
Klimchenko, I. Z. – 389
Korabel'nikov, V. M. – 120
Kochetova, N. I. – 264
Komov, S. V. – 352
Korclev, V. G. – 480
Kozlitina, L. M. – 273
Koval'skii, V. V. – 152
Kovshar', A. F. – 332
Kozhevnikova, T. L. – 148
Kozlo, P. G. – 365
Krapivin, V. F. – 215
Kravchenko, M. A. – 77
Krivolutskii, D. A. – 148
Krivosheina, N. P. – 228
Kulagin, Yu. Z. – 485
Kulikov, N. V. – 91, 257, 328
Kulikova, V. G. – 328
Kuznetsov, E. V. – 10
Kuznetsov, L. A. – 483

L

Larina, T. G. – 434
Lebedeva, L. S. – 336
Leibson, N. L. – 63
Letunova, S. V. – 152
Lobachev, V. S. – 281
Lozina-Lozinskii, L. K. – 95
Lukin, E. I. – 187

M

Makeev, V. M. – 561
Makhnev, A. K. – 16
Mamaev, S. A. – 16
Martynova, E. F. – 373
Matveeva, N. V. – 574
Mekhtiev, G. I. – 389
Melkumyan, L. S. – 86, 279
Milovanova, N. I. – 246
Minoranskii, V. A. – 471
Mirkin, B. M. – 509
Mironov, A. D. – 80
Miroshnichenko, Yu. M. – 26
Mirozyan, E. – 286
Mirzambetov, K. – 376
Mokronosov, A. T. – 529
Molchanoua, I. V. – 257, 554
Mordosov, I. I. – 177
Moskvitina, N. S. – 172
Mosvchan, O. T. – 63
Mytsyk, L. P. – 169

N

Naiden, P. E. – 389
Namatov, T. N. – 95
Nasilov, S. B. – 179
Niftonova, M. G. – 164
Nikiforov, V. S. – 417
Nikolaevskaya, L. D. – 421
Nikolaevskii, V. G. – 421
Nosova, L. M. – 1

O

Obidina, V. A. – 567
Ol'kova, N. V. – 250

P

Parchevskii, V. P. – 411
Pegel'man, S. G. – 120
Pesenko, Ya. A. – 68
Petrosyan, E. A. – 389
Petrov, O. V. – 80
Petrova, I. A. – 246
Pole, S. B. – 558
Polonik, N. I. – 246
Polyakov, I. Ya. – 305
Ponomareva, V. V. – 512
Popova, T. V. – 289
Prokhorov, V. M. – 191
Pshennikov, A. E. – 177
Puchkova, L. V. – 556
Pulinets, M. P. – 548

R

Rafes, P. – 571
Rozenberg, G. – 509
Rudaeva, A. V. – 457
Ruderman, S. Yu. – 509
Ryabinetsev, V. K. – 294

S

Samarskii, S. L. – 133
Segal', A. N. – 453
Semakov, V. V. – 459
Semenova, V. G. – 167
Seraya, G. P. – 352
Shapovalov, S. I. – 379
Sharipov, M. – 372
Shekhou, A. G. – 260
Shchupak, E. L. – 294
Shkarlet, O. D. – 38
Shubin, I. G. – 450
Shvarts, S. S. – 357, 489, 495
Smirnov, A. V. – 156
Smirnov, V. S. – 42, 209
Smirnov, V. U. – 167
Smyshlyaev, M. I. – 401
Sokolova N. V. – 411
Stepanova, N. T. – 203
Styazhkin, V. P. – 283
Sveshnikova, V. M. – 385

T

Tadzhitdinov, M. T. – 143
Testov, B. V. – 417, 545
Tikhomirov, S. I. – 53
Tikhomirova, A. L. – 53
Tooming, Kh. G. – 339
Trotsenko, G. V. – 462

U

Ushakov, B. P. – 103
Ushakov, V. A. – 360

V

Vardapetyan, S. M. – 222
Vedmederya, V. I. – 457
Vinberg, G. G. – 295
Vlasov, V. V. – 172
Volozheninov, N. N. – 569
Vtorov, P. P. – 373

Y

Yakovleva, A. S. – 266
Yudin, B. S. – 172

Z

Zaitseva, Z. D. – 445
Zimin, V. B. – 405
Zolotukhina, S. I. – 474

THE SOVIET JOURNAL OF ECOLOGY
Volume 3, Numbers 1-6, 1972
(A translation of Ékologiya)

Volume 3, Number 1 January-February, 1972

	Engl.	Russ.
Review of Biogeocenological Studies Conducted in the USSR in 1970 — L. M. Nosova ...	1	5
Diurnal Rhythms in the Locomotor and Mitotic Activity of Frogs under Natural Conditions — E. V. Kuznetsov, Yu. D. Chugunov, and V. Ya. Brodskii	10	16
Intraspecific Variation and Structure of Birch Populations in the Mountains of the Southern Urals in Relation to Altitudinal Zones — A. K. Makhnev and S. A. Mamaev	16	24
Water Reserves in the Leaves of Desert—Steppe and Introduced Plants under Conditions of the Mongolian Gobi — Yu. M. Miroshnichenko	26	37
Soil Algae in the Rhizosphere of the Dominant Plants of Forest Biogeocenoses — T. I. Aleksakhina	32	45
Influence of Industrial Pollution of the Atmosphere and Soil on the Size of Pollen Grains of the Scots Pine — O. D. Shkarlet	38	53
The Character of Relation Between Heart Weight and Body Weight in Perch — A. M. Bozhko and V. S. Smirnov	42	58
Energy Requirement and Coefficient of Utilization of Food in the Common Hamster and Water Rat — L. N. Erdakov	49	66
A Method for Studying the Temperature Preferendum of Arthropods Living in Forest Litter — S. I. Tikhomirov and A. L. Tikhomirova	53	70
Yeasts of the Genus Debaryomyces Klöck in the Nests of Ants of the Group Formica rufa L. — V. I. Golubev and I. P. Bab'eva	59	78
Proliferation and Synthesis of DNA in the Nuclei of Various Tissues of Two Species of Bivalve Mollusks — O. T. Movchan, N. L. Leibson, and L. T. Frolova	63	83
Method of Counting Insect Pollinators — Yu. A. Pesenko	68	89
BRIEF COMMUNICATIONS		
The Effect of Ecological Factors on the Accumulation of Biologically Active Substances in Cowberry — A. A. Gozin	74	96
Ecology of the Variegated Wood Wasp Xiphydria picta Knw. in North Caucasia — M. A. Kravchenko	77	98
Migrations of the Redbacked Mouse Evotomys glareolus Within the Boundaries of Its Individual Territory — O. V. Petrov and A. D. Moronov	80	101
Seasonal Changes of Salt Tolerance in the Brown Algae of the White Sea — V. P. Drobyshev	83	103
The Degree of Preparedness and Time of Going into Hibernation of Certain Species of Lizards — L. S. Melkumyan	86	105
Biogeocenological Investigations on the "Kharp" and "Khadyta" Stations — P. L. Gorchakovskii and L. N. Dobrinskii	88	107
BOOK REVIEWS		
R. S. Russel (Editor) — Radioactivity and Human Diet — Reviewed by N. V. Kulikov	91	110
E. Sondheimer and J. B. Simeone (Editors) — Chemical Ecology — Reviewed by M. S. Gilyarov	92	110

Volume 3, Number 2 March-April, 1972

Resistance of Wheat-Nematode Larvae to Short-Wave Ultraviolet Radiation at Low and Superlow Temperatures — L. K. Lozina-Lozinskii and T. N. Namatov .. 95 5
Change in the Thermal Stability of Isolated Muscle Tissue of Various Frog Individuals as a Result of Preliminary Heating — B. P. Ushakov and I. S. Amosova 103 15
Growth Patterns of Pacific and Atlantic Salmon in Relation to Early Ontogenesis — D. K. Khalturin 108 21
Litter Size and Rate of Offspring Development in Rodents — S. G. Pegel'man and V. M. Korabel'nikov 120 36
The Dynamics of Changes in Body Weight and of the Principal Morphological Features of the Northern Red-Backed Vole During Autumn and Winter in the Subartic — F. I. Boikova and V. N. Boikov 126 44
Changes in the Relative Weight of the Adrenals and Kidneys in Populations of the Gray Rat — M. V. Kartel' and S. L. Samarskii 133 52
Ecological Features of the Migration of the Sparrowhawk — L. O. Belopol'skii 138 58
Succession of Plant Communities in Colonized Reservoirs of the Amu-Dar'ya Delta — M. T. Tadzhitdinov and K. N. Butov 143 64
Effect of Radioactive Contamination on Meadow Soil Microfauna — D. A. Krivolutskii and T. L. Kozhevnikova 148 69
Genetic Transformation of Adaptive Responses to High Concentrations of Boron under Conditions of the Natural Environment — V. V. Koval'skii, S. V. Letunova, and R. D. Altynbaeva 152 75
Appraisal of the Behavior of Plants in the Forests of the South of Central Siberia after the Action of Anthropogenic Forest-Destructive Factors — A. V. Smirnov 156 79

BRIEF COMMUNICATIONS
Diurnal Dynamics of CO_2 Assimilation in Some Lichens of the Transural Forest Tundra — M. G. Nifontova 164 88
Seasonal Dynamics of Ash Elements in Leaves of Birch and Aspen — V. V. Smirnov and V. G. Semenova 167 91
Cold Resistance of the Main Shoots in Pasture Ryegrass the First Year of Growth after Autumn Seeding — L. P. Mytsyk 169 92
An Experiment in Absolute Censusing of Small Mammals on Isolated Plots — B. S. Yudin, N. S. Moskvitina, and V. V. Vlasov 172 95
Widespread Infertility of Blunt-Nosed Vipers in 1969 — O. P. Bogdanov 176 98
Content of Brown Fat in Some Mammals of Yakutiya — A. E. Pshennikov and I. I. Mordosov 177 99
Feeding of Wildcat in Azerbaijan — S. B. Nasilov 179 101
Some of the Factors Reducing the Closeness of Correlation between the Transpiration of Trees and Meteorological Factors — Ts. M. Khashes and V. I. Bobro 181 102

BOOK REVIEWS
N. P. Druzhinin and N. V. Kham'yanova — Solar Activity and Sudden Changes in the . . .
Natural Processes on Earth: A Statistical Analysis — Reviewed by V. V. Alpatov . . . 184 105
M. S. Gilyarov — Mechanisms of Adaptation of Arthropods to Terrestrial Life — Reviewed by E. I. Lukin 187 107

CHRONICLES
Problems of Radioecology at the Fourth International Conference on the Peaceful Uses of Atomic Energy — R. M. Aleksakhin and V. M. Prokhorov 191 110

Engl./Russ.

Volume 3, Number 3 May-June, 1972

The Productivity, and Methods of Its Assessment, of Shrub, Dwarf-Shrub, and Herbaceous Communities of the Forest Tundra — N. I. Andreyashkina and P. L. Gorchakovskii 195 5
Relationship between the Morphological Characteristics of Polyporaceae Fungi and Geographical and Vertical Zoning — N. T. Stepanova 203 13
Relationship between Body Weight and Brain Weight in Fishes — V. S. Smirnov and I. N. Brusynina 209 20
Investigation of Generalized Mathematical Predator—Prey Model — V. F. Krapivin 215 28
Food Relations of Predatory Crustaceans in Lake Zooplankton — S. M. Vardapetyan. 222 38
Ecology of Xylobiontic Larvae of Tipulidae — N. P. Krivosheina 228 45
Horizontal Distribution of Oribatidae in Worked-Out Peat-Bogs in the Balakhninsk Lowlands — M. P. Chistyakov 234 53
Influence of Trace Elements on the Water Balance of the Blood of Amphibians in a System of Dehydration at Various Seasons of the Year — M. V. Ermakova 239 59
Reproduction of the Common Gull in the Barents, White, and Baltic Seas — L. O. Belopol'skii, L. É. Aumées, G. P. Goryainova, N. I. Milovanova, I. A. Petrova, and N. I. Polonik 246 67
Use of Morphophysiological Indices in Hibernating Rodents — N. V. Ol'kova 250 72

BRIEF COMMUNICATIONS
Plant Associations as Indicators of Salination Conditions of Soils in the Coastal Salt Marshes of Dagestan — F. D. Alakhverdiev 255 77
Influence of Soil Moisture Content on Strontium-90 Uptake by Plants — I. V. Molchanova, E. N. Karavaeva, and N. V. Kulikov 257 78
Ecological Features of Plants from the Coastal Lakes Along the Kuban — A. G. Shekhov 260 81
Dependence of Wood Increment in Trees on the Dynamics of the Topoclimate in the Boguchar River Basin — V. V. Fil'chenko 262 83
The Effect of Female Population Density of the Common Trichogramma on the Sex Ratio in the Offspring — N. I. Kochetova 264 84
Some Morphophysiological Peculiarities of the Broad Whitefish — A. S. Yakovleva 266 86
Effect of Numbers in Populations of Laboratory Mice on the Weight of the Individuals Comprising the Population — A. L. German 270 89
Tolerance of Some Mollusks of the Acmaeidae Family Toward Water-Freshening in Relation to Conditions of the Habitat — L. M. Kozlitina 273 92
Some Morphophysiologic Features of the Harvest Mouse (Micromys minutus (Pall.) in the Forst Tundra of the Pri-Ob Territory — V. H. Boikov and V. N. Bol'shakov 276 94
Breeding Time and Seasonal Variations in Body Weight of Lizards in Arax River Valley — L. S. Melkumyan 279 97
The Effect of Population Structure on Adrenal Weight in the Large Gerbil — V. S. Lobachev and M. E. Gol'tsman 281 98
The Dynamics of the Living Soil Cover Associated with Changes in the Age of the Forest Stand — V. P. Styazhkin 283 99

BOOK REVIEWS
Essays on the History of Ecology — Reviewed by É. Mirzoyan..... 286 102
P. D. Yaroshenko (editor) — Mosaics of Plant Communities and Its Dynamics — Reviewed by T. V. Popova 289 104
R. Dajoz — Précis D'Écologie — Reviewed by V. V. Alpatov 292 106
Zoology and Zoo Parks — Reviewed by V. K. Ryabinetsev and E. L. Shchupak 294 107

Volume 3, Number 4 July-August, 1972

Investigations of the Biological Energy Balance and the Biological Productivity of Lakes in the Soviet Union – G. G. Vinberg	295	5
Ecological Fundamentals of Pest Control in Plants – I. Ya. Polyakov	305	19
Ecological Aspects of Virus Infections in Insects – V. V. Gulii	315	32
Respiratory Characteristics of the Cabbage Butterfly during Different Stages of Larval Development – N. M. Tikhonravova	320	39
Energy Balance in the Feeding of Chaffinch Nestlings – T. V. Dol'nik	324	43
The Transfer of Strontium-90 from the Fish Organism to Progeny – V. G. Kulikova, É. I. Beregovaya, and N. V. Kulikov	328	48
Breeding Efficiency of Mountain Passerine Birds – A. F. Kovshar'	332	53
Deer Population of Biryuchii Island – A. G. Bannikov and L. S. Lebedeva	336	58
Competition between Two Plant Species for Photosynthetically Active Radiation – Kh. G. Tooming	339	63
Seasonal and Daily Flowering Rhythms in Plants of Broad-Leaved Forests – L. A. Antonova	346	73
Colonization of Fresh Ash Dumps by Flowering Plants – G. P. Seraya and S. V. Komov	352	80
BRIEF COMMUNICATIONS		
The Nature of the Functional Links between Elements in Biological Systems at the Level of the Population and the Level of the Organism – S. S. Shvarts	357	87
Age Distribution of Spadefoot Toads along the Shores of the Kuibyshev Water Reservoir – V. A. Ushakov and V. I. Garanin	360	89
Data on the Ecology of Marsh Plants – N. A. Belousova	362	90
Certain Indices of the Internal Organs of the Bison – P. G. Kozlo	365	93
Survival of Stone Pine Regrowths on Felled Areas along the Lower Chulym River – I. P. Isakov	369	97
Feeding of the Rufous-Backed Shrike of Urban Populations in the Fergana Valley – M. Sharipov	372	99
Springtails (Collembola) and Other Microarthropods of the High Mountains of the Western Part of the Terskei Ala-Tau Range – P. P. Vtorov and E. F. Martynova	373	100
Effect of Drought on the Water Regime of Cotton during Different Periods of Its Development – K. Mirzambetov	376	103
Censusing Small Mammals by Trapping Them in Trenches – E. N. Ermakov and S. I. Shapovalov	379	105
Growth and Development of the Larvae of the Common Spadefoot Toad under Experimental Conditions – N. L. Ivanova	380	106
BOOK REVIEWS		
J. Phillipson (editor) – Methods of Study in Soil Ecology (Proceedings of the Paris Symposium Organized by UNESCO and the International Biological Programme) – Reviewed by M. S. Gilyarov	382	107
CHRONICLES		
Results of International Symposium on the Problem "Reaction of Plants to Climatic Factors" – V. M. Sveshnikova	385	110

Volume 3, Number 5 September-October, 1972

Effect of Eradication Measures on the Population Structure of Vinogradov's Gerbil – I. Z. Klimchenko, P. E. Naiden, G. I. Mekhtiev, P. F. Emel'yanov, E. A. Petrosyan, and M. K. Kafarov	389	5

	Engl.	Russ.
Epigenetic Characteristics of Intraspecies Groupings of Forest Marten – N. N. Grakov	395	12
Color-Polymorphism Dynamics and Numerosity Variation in Populations of the Red Squirrel in the Lake Baikal Region – M. I. Smyshlyaev	401	18
Ecology of Reproduction of Pied Fly-Catchers in Southern Karelia – V. B. Zimin	405	23
Lead-210 in Some Aquatic Fauna in the Sea of Okhotsk and the Bering Sea – N. V. Sokolova and V. P. Parchevskii	411	30
Calculation of the Ambient γ-Irradiation of Mouse-Like Rodents in Areas with High Natural Radioactivity – I. A. Bochvar, D. Ya. Gubatova, I. B. Keirim-Markus, V. S. Nikiforov, and B. V. Testov	417	37
Ecological and Anatomic Characterization of Xeromorphic Grasses of Steppes and Prairies – V. G. Nikolaevskii and L. D. Nikolaevskaya	421	43
Principles of Classification of Life-Forms among Fungi – M. A. Bondartseva	428	52
European Hornbeam and Hornbeam Communities in the Crimea – T. G. Larina	434	59
Humus Level in North-Eastern European Loamy Tundra Soil – I. B. Archegova	437	64
Phytoindication of Soil Salinization Conditions in Shallow Drying Lakes – M. T. Ilyushina	440	68
Amplitude of Variation of Morphological Characteristics of the European Globeflower under Nursery Conditions and in a Natural Setting – Z. D. Zaitseva	445	74
BRIEF COMMUNICATIONS		
Reproduction and Numbers of Steppe Lemming in Northern Balkhash Area – I. G. Shubin	450	80
Ecological Thermoregulation in the American Mink – A. N. Segal'	453	82
Rearing Young Common Adders in Captivity – V. N. Grubant, A. V. Rudaeva, and V. I. Vedmederya	457	85
Ecology of the Turnip Root Fly in Kamchatka Province – V. V. Semakov	459	87
Phytomass Reserves in Certain Types of the Tundra along the Ob River – G. V. Trotsenko	462	90
Change in Growth Rate of Siberian Squill due to Temperature in the Prespring Period as a Possible Mechanism of Stabilization of Spring Phenology – T. K. Goryshina	465	93
Penetration of Zinc-65 into Plants through the Leaves – M. Ya. Chebotina	469	96
Changes in the Population of the Seven-Spot Ladybug during the Year – V. A. Minoranskii	471	97
Dynamics of the Content of Vitamins A and E in the Livers of Certain Species of Rodents of the Southern Ukraine – S. I. Zolotukhina	474	100
Acclimatization and Some Ecological Features of Canadian Beaver in Karelia – P. I. Danilov	477	102
Variability of Measurable Characteristics during the Introduction of Georgian Honeybees – V. G. Korolev	480	105
BOOK REVIEWS		
P. Farb (edited by N. P. Naumov) – Popular Ecology – Reviewed by L. A. Kuznetsov	483	107
INFORMATION		
Problem of the Adaptation of Trees to Northern Conditions – Yu. Z. Kulagin	485	109

Volume 3, Number 6 November-December, 1972

Ecology in the USSR: Present Status, Main Trends, and Future Prospects – S. S. Shvarts and P. L. Gorchakovskii	489	5
Long-Range Prognosis of Development of Population Ecology – S. S. Shvarts	495	13
Some Physiological Problems Related to Mammalian Taxonomic Variability – N. I. Kalabukhov	500	20

Identification of Plants as a Method of Assessing Soil Salinity — G. Rozenberg, B. M. Mirkin, and S. Yu. Ruderman 509 31
Water—Soil Ecological Characterization of Certain Types of Vegetation — Forest, Meadow, and Forest—Steppe Components — V. V. Ponomareva 512 35
Vegetation Dynamics Upon the Sand Deposits in the Ancient and Present Delta of the Syr-Darya River — F. N. Chalidze 522 48
Succession of Plant Communities on the Plain at the Foot of Kopet-Dag in Relation to Formation of Granulometric and Geochemical Facies of Proluvial Deposits — É. A. Ataev 526 52
A Field Apparatus for Studying Photosynthetic Carbon Metabolism in Ecological–Physiological Investigations — A. T. Mokronosov 529 56
Epizootics and Evolution of Carrier Populations in Natural Foci of Plague — A. I. Dyatlov 534 62
Growth of Brain and Body of Carp in Waters of the Amu-Darya Delta — A. B. Baimuratov 540 69
External β-Irradiation of Mouselike Rodents in Soil with an Increased Content of Nuclides of the Uranium and Thorium Radioactive Families — I. A. Bochvar, I. B. Keirim-Markus, and B. V. Testov 545 75

BRIEF COMMUNICATIONS
Winter Wilt of Coastal Trees — M. P. Pulinets 548 79
The Role of Soil Conditions in the Development of Cutworms — S. V. Aliev and R. M. Akhmedov 551 81
Effect of Plant Leaf Fall on the Vertical Migration of Strontium-90 in Soil — M. Ya. Chebotina and I. V. Molchanova 554 85
The Behavior of Water Scorpion Larvae — L. V. Puchkova 556 86
Relationship of Weight Indices of the Liver and Visceral Fat in the Altai Marmot — S. B. Pole 558 87
Activity and Behavior of the Central Asian Cobra in Captivity — V. M. Makeev 561 89
Growth Changes in the Testes of the Saw-Scaled Viper and Renard's Viper — E. K. Brushko 564 91
Winter Breeding of Alticola argentatus under Natural Conditions — V. A. Obidina 567 95
Ecology of the Common White-Toothed Shrew in the South of Uzbekistan — N. N. Volozheninov and A. G. Davletshina 569 97

CRITICISM AND BIBLIOGRAPHY
H. Ellenberg (editor) — Integrated Experimental Ecology, Methods and Results of Ecosystem Research in the German Solling Project — Reviewed by P. Rafes 571 99

NEWS
Fourth International Meeting on the Biological Productivity of Tundra — N. V. Matveeva 574 101
Progress and Future of Research on the Radioecology of Aquatic Organisms — R. M. Aleksakhin 578 104

INDEX
Author Index, Volume 3, Numbers 1-6, 1972 583
Tables of Contents, Volume 3, Numbers 1-6, 1972 585